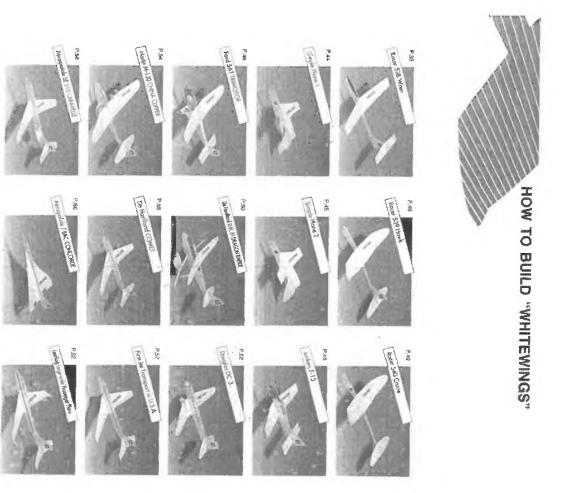
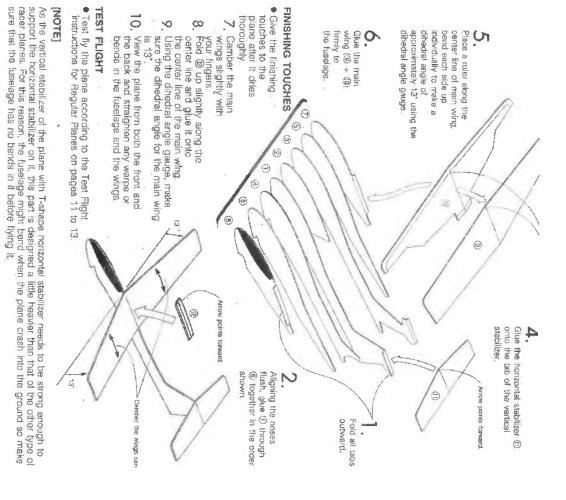


ASSEMBLY INSTRUCTIONS
FLIGHT INSTRUCTIONS
GUIDELINE FOR WHITEWINGS COMPETITION
INTRODUCTION TO PAPER PLANE DESIGN
HOW TO BUILD "WHITEWINGS"

HISTORY OF PASSENGER PLANE SERIES





GLUING INSTRUCTIONS Glue the parts together in the order indicated.

Fold all tabs outward. 3. Giue the horizontal stabilizer ® to the fuselage. ۹ Assemble the main wing following the assembly instructions for the MOST wings on page 63. (3) 0 (D) (0) (3) Aligning the noses flush, glue (1) through (1) together in the order shown, Glue the main wing firmly Θ Arrow points forward. 9 (9) to the fuselage. (6) (9) d

and (0). Fold tabs on both ends of the main wing to form a 30° dihedral angle using the gauge and then camber them as well. Apply glue to the top surface of the folded tabs of the main wing. Attach wing tips @ and ? Camber both wing tips ® respectively. Once again, (2) 9 Camber the wing tips carefully, Dot towards the front. Dot towards the front,

angle at the tip of the wing is 30°, using the gauge. check that the dihedral

Give the finishing touches to the plane after it FINISHING TOUCHES

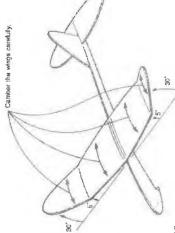
- 8. Using the dihedral angle gauge make sure the dihedral angle for the main wing is 5 and for the wing tips is 30.

 9. Cambor the main wings carefully with your fingers.

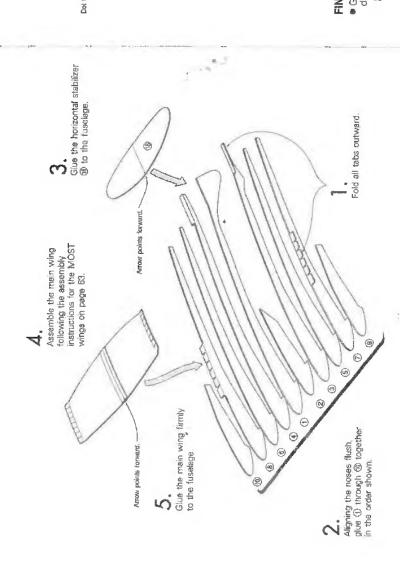
 10. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings. dries thoroughly.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on page 11 to 13.



GLUING INSTRUCTIONS
Glue the parts together in the order indicated.



respectively. Once again, check that the dihedral angle at the tip of the wing is 30°, using the gauge. Apply give to the top surface of the folded tabs Camber both wing tips (§ end (§). Fold tabs on both ends of the main wing to form a 30° dihedral angle using the gauge and then camber them as well. of the main wing. Attach wing tips ® and ® (9) Camber the wing tips caretully. Dol towards the front. Dot towards the front,

FINISHING TOUCHES

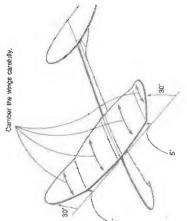
- Give the finishing touches to the plane after it dries thoroughly.
 - 8. Using the dihedral angle gauge make sure the dihedral angle for the main wing is 5 and for the wing tips is 30.

 9. Camber the main wings carefully with

 - your fingers. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings. 0.

TEST FLIGHT

• Test fly the plane according to the Test Flight instructions for Regular Planes on page 11 to 13.

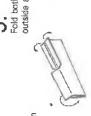


Fold () autward along this

part of (1) and fold it inward along the center line. Turn up the folded smaller.

over the other edge, then attach them with glue or Fold the protruding part

Sold both tabs on ① outside as shown.



FINISHING TOUCHES

- Before the glue dries, fix ① and ② with your fingers carefully to ensure the center lines of both ① and ② are on the 0
 - Camber the main wing slightly with your straight Ö.
- Place the angle gauge at the upwelling of the main wing and make sure that the dihedral angle for the main wing is 15.

 12. Bend the trailing edge of the horizontal stabilizer 0.5 1mm (1/60 1/25") up. ingers.
- underside of the horizontal stabilizer 13,
- make sure that the dihedral angle is -70° View the plane from the front and the back and straighten any warps or bends in the fuselage and the wings. ৰ

TEST FLIGHT

Test fly the plane according to the Test Right instructions for Regular Planes on page 11 to 13.

Completion of the tuselage 5

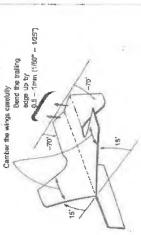
Placing a ruler along the center line on ② and bend each side up to make a dihedral angle of 15. (Use the angle gauge.)



dotted line 70'downward, (Use the stabilizer along the long dash and Bend each side of the horizontal dihedral angle gauge.)

 ∞

Spread glue on the tabs on (3 and attach them to the underside of the front end of (2)



FINISHING TOUCHES

- your fingers carefully to ensure the center lines of both ① and ② are on the 9. Before the glue dries, fix ① and ② with
 - straight. Camber the main wing slightly with your fingers.
- of the main wing and make sure that the dihedral angle for the main wing is 15. Place the angle gauge at the upperside
 - Bend the tips of the horizontal stabilizer 0.5 - 1mm (1/50 - 1/25") up.
- make sure that the dihedral angle is -70°. View the plane from the front and the back and straighten, any warps or bends underside of the horizontal stabilizer Placing the angle gauge at the 33 7

TEST FLIGHT

in the fuselage and the wings.

Test fly the plane according to the test flight instructions for Regular Planes on pages 11 to 13.

Fold 1 cutward along this line.

Completion of the fuselage

part of (1) and fold it inward Turn up the folded smaller

② and bend each side up to make a dihedral angle of 15°. (Use the angle

gauge.)

Placing a ruler along the center line

Fold both tabs on ① outside as shown.

over the another edge, then sttach them with glue or

scotch tabe

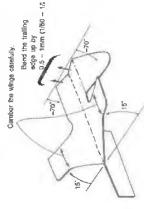
Fold the protruding part

along the center line.

0

Bend each side of the horizontal stabilizer along the long dash an dotted line 70'downward, (Use t dihedral angle gauge.)

Spread glue on the tabs on ① and attach them to the underside of the front end of



features an open design for pilots to gain headwinds in their favor. The projecting horn on the plane nose is the exhaust pipe for the engine.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.

ന :

Aligning the noses flush, glue (1) through (1) together in the order shown.

Cut out the slit on part (1) into which the horizontal stabilizer will be inserted.

(6) 6 (6) 0 0 (3)

3 (3) (8)

2 gauge, fold landing gear parts (B. (B., and (D) Using the landing gear

Q0 (9) glue (1) to the underside of (6) aligning their front edges. the figures. Then, glue (6) to the underside of (6) and respectively as shown in

Aligning the front edge of the landing gear (@ + @ + @) and that of the main wing, glue the landing gear main wing. Make sure that the center line of the main wing and the cut of the to the underside of the landing gear meet each

horizontal stabilizer, aligning its center line and that of the fuselage Find the center line of the horizontal stabilizer using the center guidelines. Insert the horizontal stabilizer (4) Into the slit of the vertical stabilizer. Then, apply glue on the tabs to fix the

. 2. Fold all tabs outward.

(2)

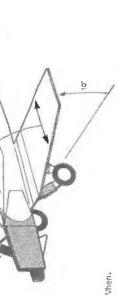
Glue @ to the underside of @. When, dry, cut off the protruding portions.

Arrows point forward.

(2)

3

(3)



FINISHING TOUCHES

Give the finishing touches to the plane after it dries thoroughly.

dihedral angle carefully with your fingers.

Racing the dihedral angle gauge at the underside of the main wing, check the dihedral angle for 10°.

Placing the gear gauge at the underside of the gear, make sure that the proper degrees are set 4

View the plane from both the front and the back and straighten any warps or bends in the fuselage and wings. 5

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

that each printed side can be seen ! Then, as shown in the figure, glue the respectively, aligning the center of the tab with the center of the wheels Glue together @ and @, and & and (1) to assemble wheels, (Make sure wheels to the landing gear

Camber the wing tips carefully. Glue the main wing (@ + @) firmly to the fuselage aligning their center lines

the center line on the underside of the main wing ((2 + (3)). HETERTING to INUITED ON page but, araw

on the main wing. Using a dihedral angle of angle gauge, make a dihedral angle of 10% Place a ruler along right and left lines

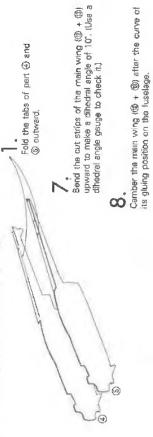
by professor Junkers. The 5AT, a larger plane with an engine utilizing more horse power, made its maiden voyage in 1928. More than 100 of the planes were produced and these Ford 5AT TRIMOTOR aircraft are still being used today in charter sightseeing service in the USA.

Give the camber to the wing tips (and () equally to the main wing.

3

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



Arrow points forward. to the fuselage. Make sure stabilizer @ onto Glue the main wing firmly that the rear protruding the fuselage. attached firmly to the portion of @ is also horizontal Glue the Ġ. fuse age. Out the main wing (3) along the solid lines up to the dashed lines. 5. Glue ® to the upperside of ® aligning their center lines. When dry, cut off the protruding portion of ® (m) 6 (2) 0 (0) Aligning the noses flush, give (1) through (1) together in the order shown. (4) Arrow points forward Arrow points forward. 0 ന[;]

underside of the fuselage Glue (0 + (0 to the

Apply glue on the cut strips of the main wing and glue the wing tips @ and @ respectively. Before they dry, make a 10° angle on both @ and @ using the gauge.

aligning the front and back notches of (2) + (3) with the center of the fuselage.

portion of the main wing and the wing tip. Fold the upper tabs of the landing gear (®, (®, @) and (®), (Stue (® and (®), (3) and (® together, Then, glue the tabs of the two landing gears to the underside of the respectively to the front edge of the joint main wing. Apply each of them

> 8-6 (E)+(B) Fold parts @ and @, as shown. Then, glue @ to the underside of @. 100 + CD

and the gears so that they form a 90° angle at the mein wing. Then, glue the tabs of 0 + 0 respectively to the inner sides of the gears 0 + 0 and 0 + 0. View the plane from the front and adjust the fuselage

FINISHING TOUCHES

· Give the finishing touches to the plane after it dries thoroughly

7 Camber the wings carefully with your fingers. ∞

0/

Using the dihedral angle gauge, make sure the dihedral angle for the main wing

View the plane from the front and the back and straighten any warps or bends in the fuselage and wings. 0.

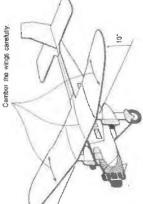
TEST FLIGHT

L. Fold all tabs outward.

0 (3)

(F)

Test fly the plane according to the Test Right instructions for Regular Planes on pages 11 to 13.



Attach those engines to the underside of the lower main wing aligning with the installation lines. (Attach them leaning slightly toward the front.) **81** angle along this line. Make the dihedral netelation line for the engine. (2) 800 9 the fuselage top. (Do not glue the upper part of the pylons to the wing yet.) View the wings from the top, bottom, back and front and make sure they are parallel. (2) Glue the upper main wing @ to Fold all tabs on the engine parts. Then, give (9, (6) and (6) together. Do the same to (9), (6) and (9) to make (7) to make pyrons. ٩ (2) engines. ø ထ

Glue @ to the underside of the lower main wing @. When dry, out off the

protruding portions.

0

0 6

Aligning the noses flush, glue () through () together in the order shown.

0

0 (0) (3) 0 @

Fold all tabs outward.

Glue the horizontal stabilizer (3) to the fuselage.

Atrows point forward

אותה מוה לישום ומאבותם זון הום חותם ווותורמובחי

(2)

Placing a ruler along the center fine of the upper main wing ®, make a dihedral engle.

Assome point forward.

(2)

Glue the lower main wing (① + ②) firmly to the fuselage aligning their

center lines.

Placing a ruler along the installation lines on the main wing, make a dihedral angle of 8" for both sides

Ś.

of the main wing. (Use the dihedral angle gauge.)

Give the finishing fouches to the plane after it

main wings slightly with your fingers.

TEST FLIGHT

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.

FINISHING TOUCHES

15. Camber both the upper and the lower dries thoroughly.

5. Draw a center line on the underside of the lower main wing (① + ②). {Refer to [NOTE]}

16. Using the dihedral angle gauge, make sure the dihedral angle for the lower main wing is 8.

17. View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings.

View the plane from the front to check that the fuselege and the pylons are parellel. Then, give the top part of the cylons to the underside of the upper main wing.

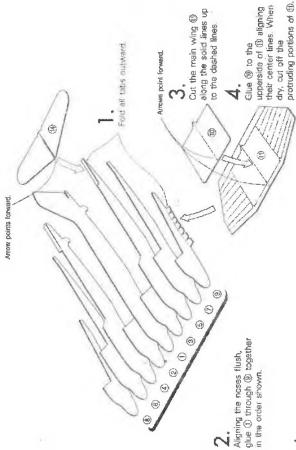
Make pinholes at both ends of the main wing. Turn the main wing over, Link the pinholes together with a ruler and draw a cener line on the unprinted side of the main wing.

NOTE

high quality and economical efficiency. An unprecedented production of more than 10,000 planes were made for civilian and military transport use.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated.



page 50, draw the center line on the

upward to make a dihedral angle of 10", (Use the

dihedral angle gauge to check it.)

Bend the cut strips of the main wing (@ + @)

S.

Referring to [NOTE] on underside of the main wing (@ + (i)).

0

Camber the main wing (@ + @) after the curve of its gluing position under the fuselage.

Glue the main wing firmly to the fuselage aligning their center lines.

 ∞

position for the main wing under the fuselege, adjust the camber of the main wing evenly from the root to both edges. Check that the dihedral angle of the cut strips of the main wing is 10. Examining carefully the curve of the gloing

Fold all tabs of engine parts (5) through (2) 12 10. (2) (9) (6) 8

left and right engines respectively onto the front notches of the joint portion of the main wing and the wing tips. Then, extach both engines to the main wing with give Slide the assembled engine onto the main wing, Put the

FINISHING TOUCHES

dries thoroughly.

from the wing root to both edges. (The dashed line in the figure 1 on page 10 shows It is very important to camber the entire main an inappropriate camber which creates different angles of settings between the wing Camber the wing tips @ and @ equally to the main wing. Refer to Figure 1 on page 10. wing evenly from the root to both edges so that it generates the equal angle of setting 'coot and both edges.)

Give the finishing touches to the plane after it

Apply glue on the cut strips of the main wing and glue

upward at the wing edges. However, it is wrong. (Refer to Figure 1 on page 10.) Adjust the camber to place an equal angle of setting from the wing root to 5. Camber the main wing carefully with your fingers. As this plane has a sweptback wing, the angle of setting tends to be wing edges

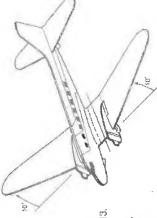
Using the dihedral angle gauge, check that the dihedral angle of the wings tips s 10° 76

View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wing.

TEST FLIGHT

Test fly the plane according to the Test Right instructions for Regular Planes on pages 11 to 13. When test flying your plane, observe its flight carefully. In the case that the plane tends to circle slightly, remember if it turns to the right or to the left. When you want this plane to fly high, launch the plane tilting it to the direction the plane circled so that it climbs up higher for an excellent flight.

the wing tips (B and (B) respectively Before they dry, make a 10° angle on both (B and (B) using the gauge. Additionally, adjust the engle of setting evenly from the wing root to both edges. (Refer to Figure 1 on page 10.)



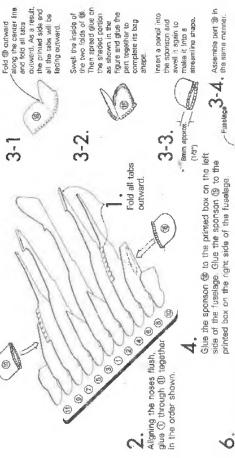
and "PHILLIPINE CLIPPER" began scheduled service across the Pacific Ocean in 1936. This transpacific service proved that a large flying boat with multi-engines were well suited in those days to the routes crossing the Pacific Ocean.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated

Assemble the sponson.

,



(8) Cut part @ along the solid lines up to the dashed lines.

Glue (3) to the upperside of (3). When dry, cut aff Arrowe point forward. ~ the protruding portions.

Placing a ruler atong the deshed line on both edges of the main wing ($\mathfrak{B}+\mathfrak{B}$), bend the strips upward to make a dihedral angle of 10°

Camber the main wing $(\mathfrak{G}+\mathfrak{G})$ after the curve of its gluing position on the fuselage.

13/3

STATE OF THE PARTY OF THE PARTY

(D+(D)

Glue the main wing firmly to the fuselage.

four engines to the main wing. (9) Camber the wing tips carefully Dot towards the front, Camber both wing tips (6) and (6) equally to the main wing. angle for the folded tabs are 10" ?

Using the engine installation lines and cuts on the main

wing as a guide, glue the

1

the gluing position for the main wing on the fuselage, camber the main wing (®

+ (B) evenly up to both

edges. Make sure that the dihedral

According to the curve of

Camber the wing tips carefully Dot lowards the front. Apply glue to the top surface of the folded tabs of the mein wing and attach wing tips ® and ® respectively. Before it dries, adjust the dihedral angles of ® and ® to 10'. (Use the dihedral angle gauge.)

FINISHING TOUCHES

the front. Before the glue dries thoroughly, fix the sponsons (® and (®) to ensure that they

(2)

are glued horizontally.

View the fuselage from

- Give the finishing touches to the plane after it dries thoroughly.
 - 19. Using the dihedral angle gauge, check again that the dihedral angle of the main 8 Adjust the camber of both the main wing and the wing tips carefully with your lingers.
 - wing is 10.
 View the plane from both the front and the back and straighten any warps or bends in the fuselage and the wings. 20.

Arrow points forward

0

MINI

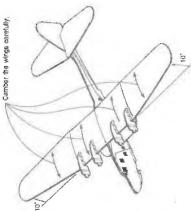
(3)

TEST FLIGHT

S.
Glue the horizontal stabilizer

(i) to the fuselage.

Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13.



a arge-scaled investigation, it was revealed that the accidents were caused by a falligue fracture of the However, accidents occurred two years later when planes experienced in flight dismigration twice. After pressurized cabin. COMET 4 was produced with a built-in countermeasure to prevent fatigue fracture of the pressurized cabin. This led to the improved design, stronger construction and the testing practice tor all transport planes with pressurized cabins

GLURING INSTRUCTIONS

Gue the parts together in the order indicated

make a dhedral angle of approximate y 7'on the nonzente stabi izer @ and attach it to the Using the dihedra angle gauge, fuselage

Glue (9) to the underside of (8). When dry cut off the Fold all tabs outward, profiled portions 8 (9) 9

Augning the noses flush glue (1) through (2) together in the

order shown

make a dihedra angle of approximatery 10°

Glue the main wing (6 + 9) fimily to the fuse age aligning their center lines

center line of the man wing (@ + @)!

Placing a ruler along the

(2)

Θ

mein wing with that of the fuserage

underside of the man wing (® + ®). (Refer to [NOTE] or Draw the center line on the page 50.) **@**

Ther the Wings carefully

4.0.0

View the plane from the front and the back and straighten any warps or bends in the fuse age and the wings. Pace the dihedra angle gauge at the then make sure the dihedra angle for upperside of the horizonta stabilizer

the horizonta stabilizer is ?

TEST FLIGHT

Test fly the plane according to the Test Flight nstructions for Regular Planes on page 11 to 13.

the main wing and subpress of wing flutter. Based on this technology, Boeing developed the left tanker KC 135 and furthermore put the first passenger et, the Boeing 707 in practical use in the USA (First ght in 1954) This passenger jet, compared to planes with reciprocating engines, resulted in fights at twice the speed and payload capacity. That is, almost four times in transport effectiveness

GLUING INSTRUCTIONS

Glue the parts together in the order undicated.

Using the dihedra angle gauge, make a dihedral angle of 7'on the stabrizer @ Then gue it to the fuse age

> Aligning the noses flush, glue (1) through (2) together in the order shown.

(E) Piscing a ruler along the wing (@ + @) make a center une of the main dihedral ang e of approximate y 10°

Θ (e) 6

(1) (3) Give the main wing (® + @) firmly to the fuse age aligning the center ine of the



Draw the center ine on the underside of the main wing (@ + @) (Refer to NOTE) on page 50)

Give the finishing touches to the plane after t

dries thoroughly

fingers

o.

FINISHING TOUCHES

Arrows point forward.

Give the finishing fouches to the plane after a

dr es thorough y

Ingers

 ∞ 0

FINISHING TOUCHES

Camber the main wing slightly with your Place the dinedral angle gauge at the

underside of the main wing and make sure the dihedral angle for the main wing

ç

9

Camber the main wings slightly with your

underside of the main wing and make sure the dihedral angle for the main wing

Place the a hedral angle gauge at the

Placing the dhedral angle gauge at the upperside of the horzonta stabilizer

Ø

0

the wings carefully 9

TEST FLIGHT

back and straighten any warps or bends

n the fuselage and the wings

Vew the plane from the front and the make sure the dihedral angle for the

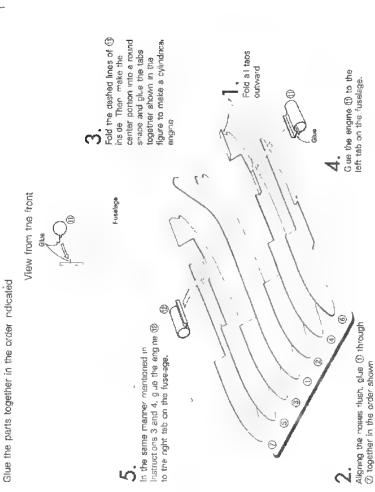
horizontal stabilizer s 7'

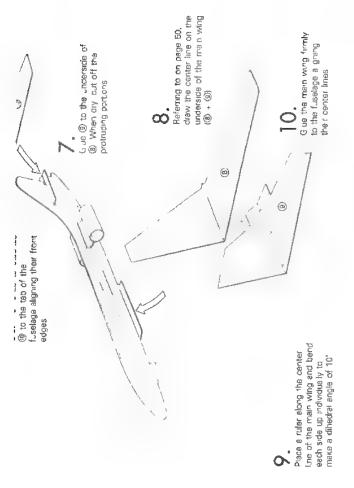
• Test fly the plane according to the Test Flight instructions for Regular Planes on pages 11 to 13

0

coming from the CARAVELLE or the engine pod with pylons on the front edges of the main wing that were used in Boeing B-47 and 707

GLUING INSTRUCTIONS





FINISHING TOUCHES

• Give the finishing touches to the plane after it dries thoroughly

Cember the wings carefully

- 12. Placing the dhedra angle gauge on the underside of the malh wing, make sure the dihedral angle for the main wing is 10°. 11. Camber the man wing slightly with your fingers
- 13. View the place from the front and the back and straighten any warps or bends in the fuselage and wings

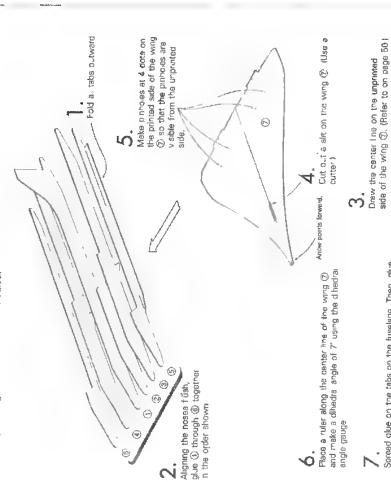
TEST FLIGHT

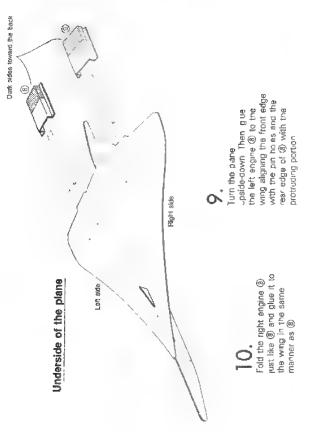
Test fly the plane according to Test Flight instructions for Regular Planes on pages 11 to 13

produced. In a CONCORDE service by British A rway and Air France have continued without accident, and carrying as many as 144 passengers.

GLUING INSTRUCTIONS

Glue the parts together in the order indicated,





FINISHING TOUCHES

- Give the finishing touches to the plane after it dries thoroughly

Spread glue on the tabs on the fuselage. Then, glue the wing ② to the underside of the fuselage in inserting the hook for the catabult into the slit Make suft to a ign the center line of the wing with that of the five selage.

11. Place the dineoral angle gauge at the underside of the wing and make sure the chedral angle of the wing is 7.

12. Band both trailing edges of the wing up by approximately firm (1/24"). Do not forget this or the plane won't fly.

13. View the plane from both the from and the back and straighten any warps or bends in the fuselage and the wing

TEST FLIGHT

• Test fly the plane according to the Test Flight instructions for Delta Wing Planes on page 13



ratest model 747-400, some improvements were made. The most conspicuous change in appearance is the winglet at the edge of the wing that extends fight range, instead of mechanical indicators, in addition the improvement of computors and CRT was introduced in the cockpit to operate the plane more economically with 2 prots

GLUING INSTRUCTIONS

Glue the parts together in the order and oated

the horizontal stabilizer (@ and make a Place a ruler along the center line of dihedral angle of 7". Then, give it

firmy to the fuselage

Glue (ii) to the underside of (iii) When dry, cut off the protruding portions

Referring to an page 50, draw a center line on the

Ford all tabs outward.

unprinted side of the main wing (® + ®) Pace a ruler along - Arrowe point forward

(E)

Algring the noses flush, give (1) through (2) together in the order shown

(1)

(0)

6

Give the firshing touches to the plane after t

FINISHING TOUCHES dr es thorough y.

8. Camber the main wing slightly with your

9 Placing the dihedral angle gauge at the

underside of the main wing

the dhedral angle of the main wing is

the center ine of the main wing (® + main wing (winglets) 10"using the dihedra the gauge to check both edges of the (3)), and make a upward and raise them to 65° Use dihedra angle of Add tronally fold angle gauge.

that it is 65° Gue the main wing to the fuselage aligning their

center lines

make sure

Camber the main wing carefully

main wing and check that the dihedra angle of the winglets are 65° against the

main wing

Place the gauge at the edges of the

9

part of the wing resembles a so called saddle shaped surface in math, I call this type of wing a MOST (Mocified Saddle Type) wing it is constructed as folwing Because the shape of the central SWO

This curve is called camber

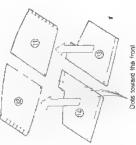
Cut parts (1) and (2) along the sofid lines

up to the dashed lines. Then placing a ruler along the dashed une, bend the resulting strips slightly upward

Apply give on half of the underside of ® and glue onto @ + @ (The arrow should point toward the dot.)



Glue parts (3 and (4) to the underside of parts (9) and (2) respectively. When dry, cut off the protruding partions d



In the same manner as in 4-5, attach (i) + (i) to the other side of (ii)

Using a ruler along the center line, fold part (§) from the center line to make 5'angle on both sides. Then curve it carefully with your fingers to fit the curved fuse age top where the main wings are to be attached.



Folded stands

main wing check that the dihedral angle is 5°

Placing the dihedra angle gauge on the

Other /

Putting folded stands under the main wing will be conductive to fast and thorough drying

₹ Test fly the plane according to the Test Right instruction for Regular Planes on pages 11 to 13.

8

TEST FLIGHT

back and straighten any warps or bends

in the fuselage and wings.

View the plane from the front and the

7.

Placing the dihedra angle gauge at the upperside of the horizontal stabilizer, make sure that the dihedral angle is 7°

'n D hedra: ang e gauge 10. Arrow points forward

(00)

10,































































































9

























- Fold with dashed line inside Arrows point forward.

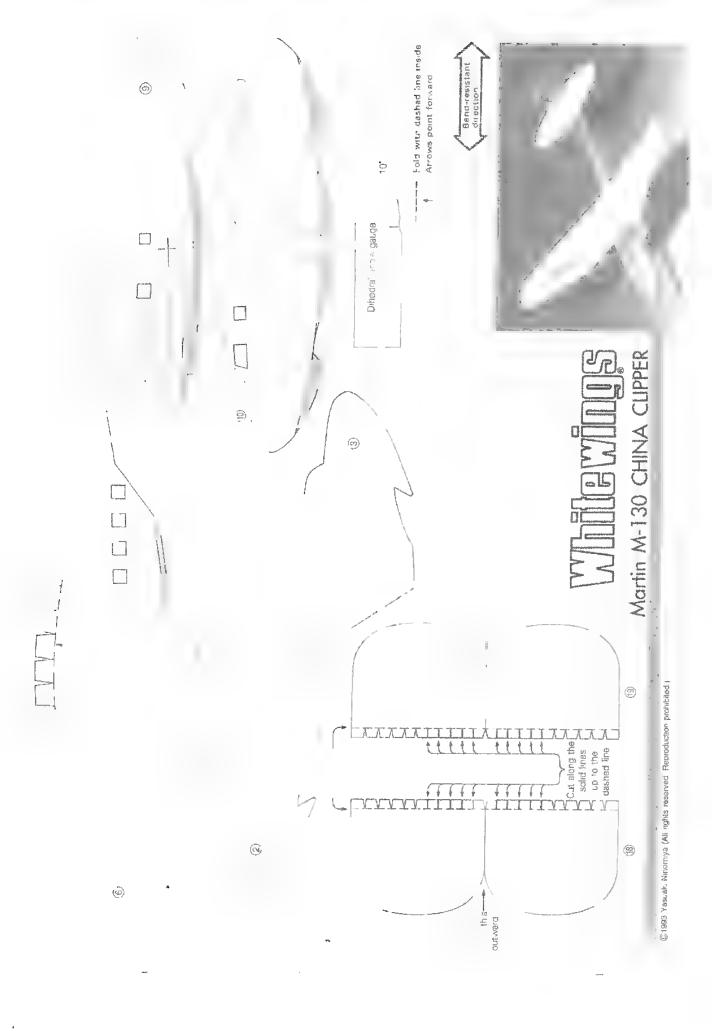


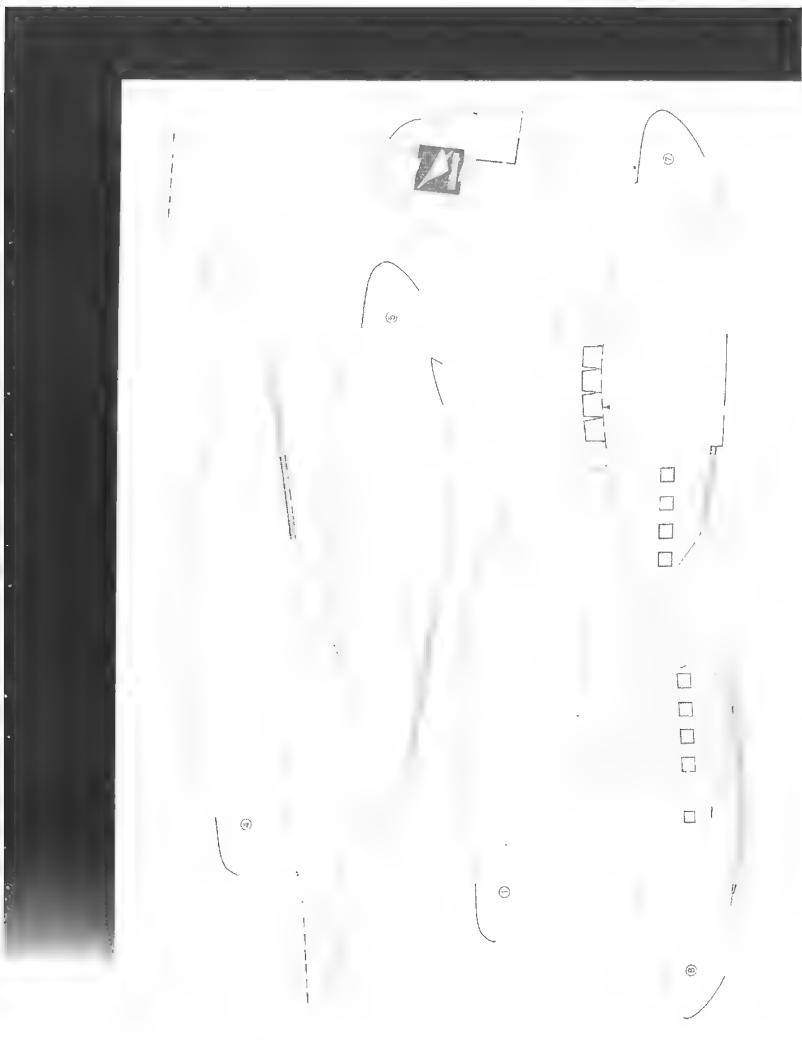


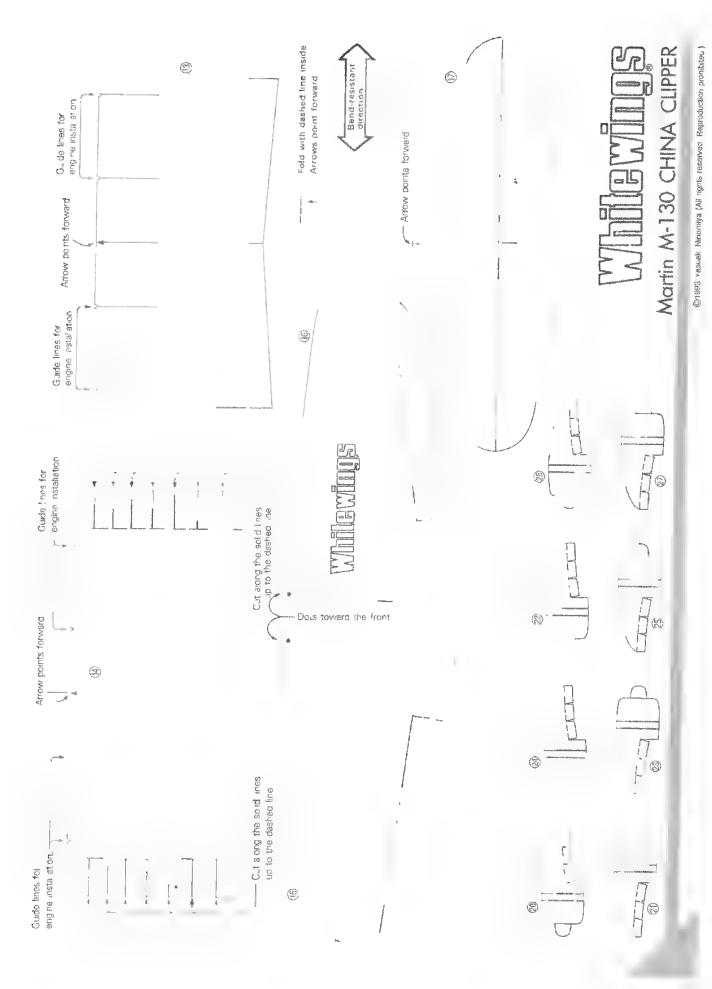
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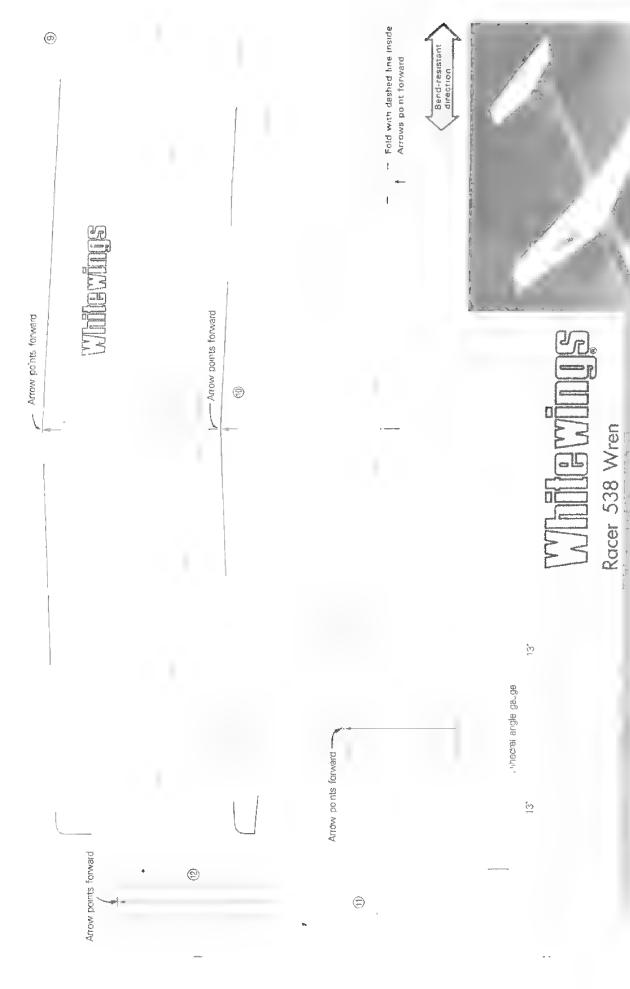
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<u>_</u> (3) \bigcirc (4)



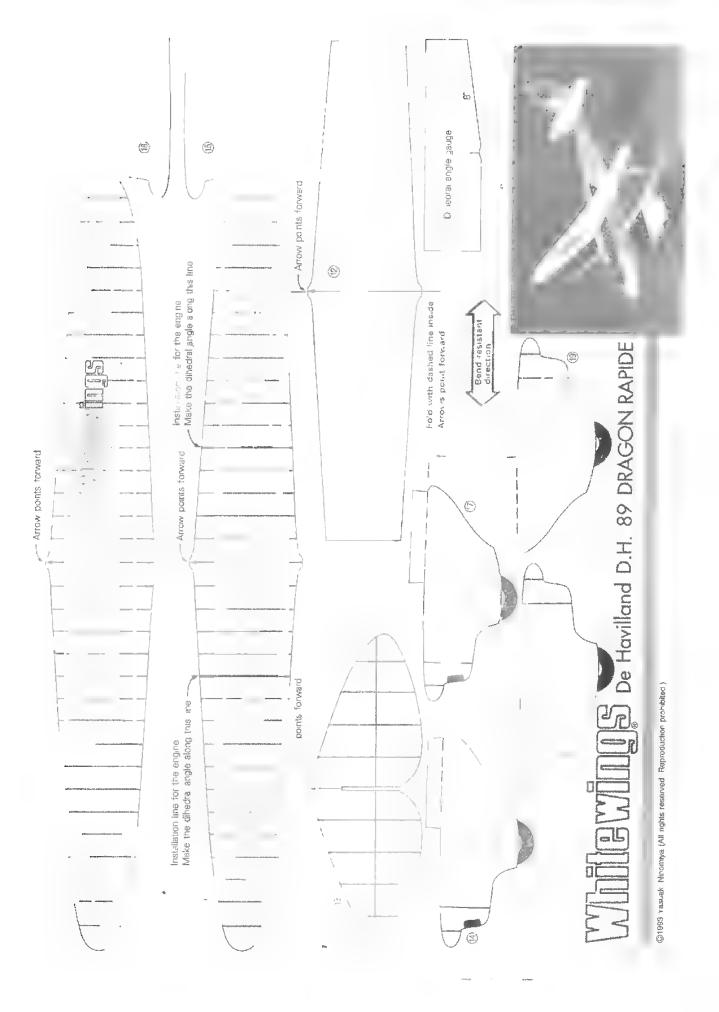






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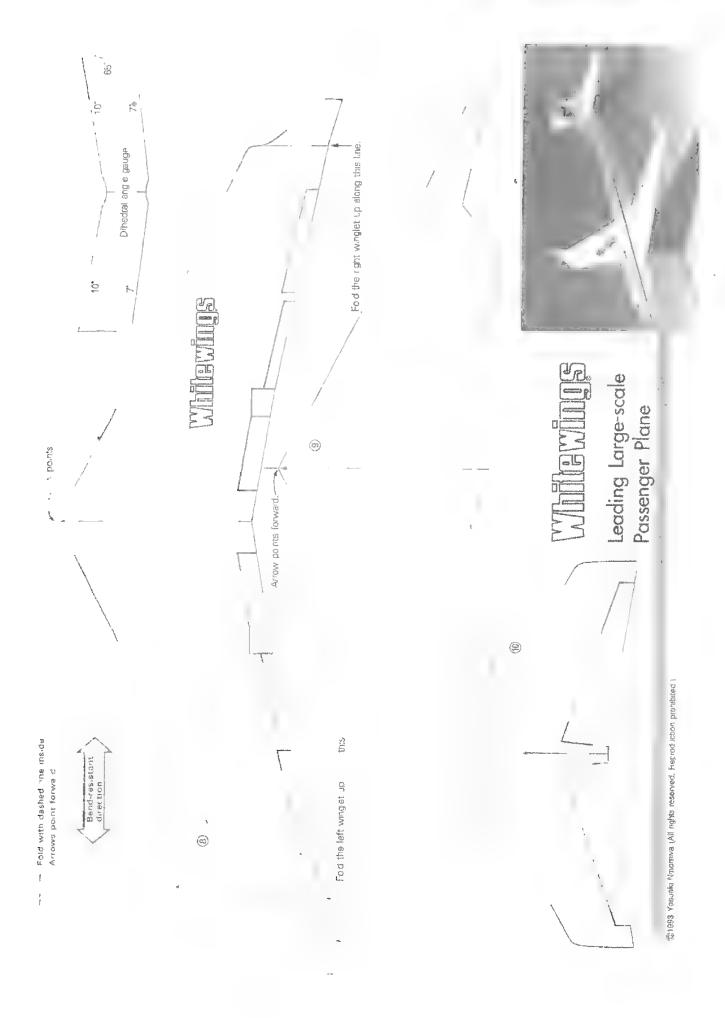




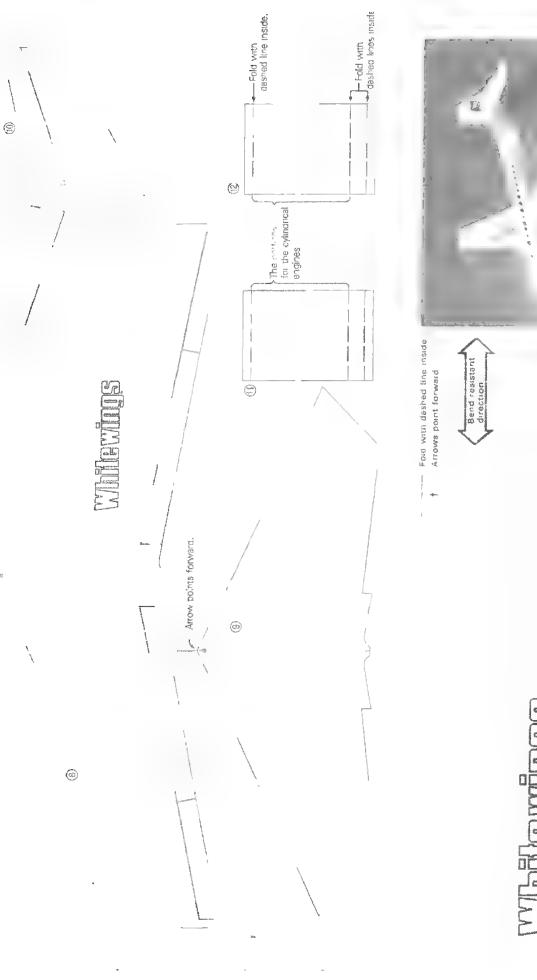
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E 1 1- 6 **(4)** (B) (C) (C) (3) (e3)



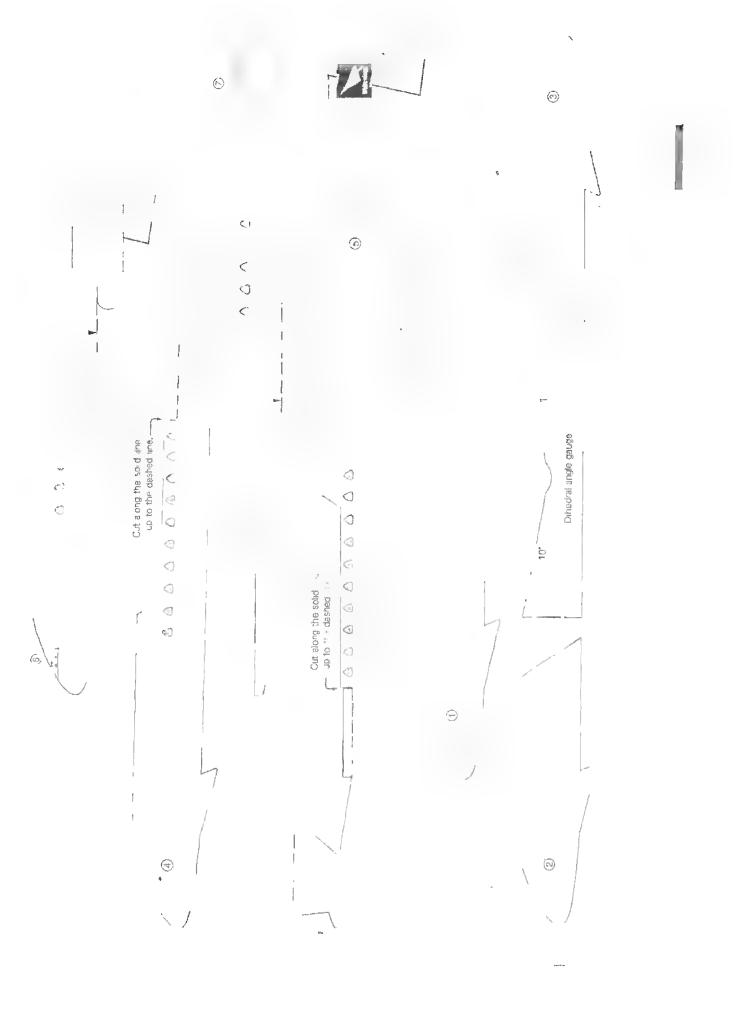




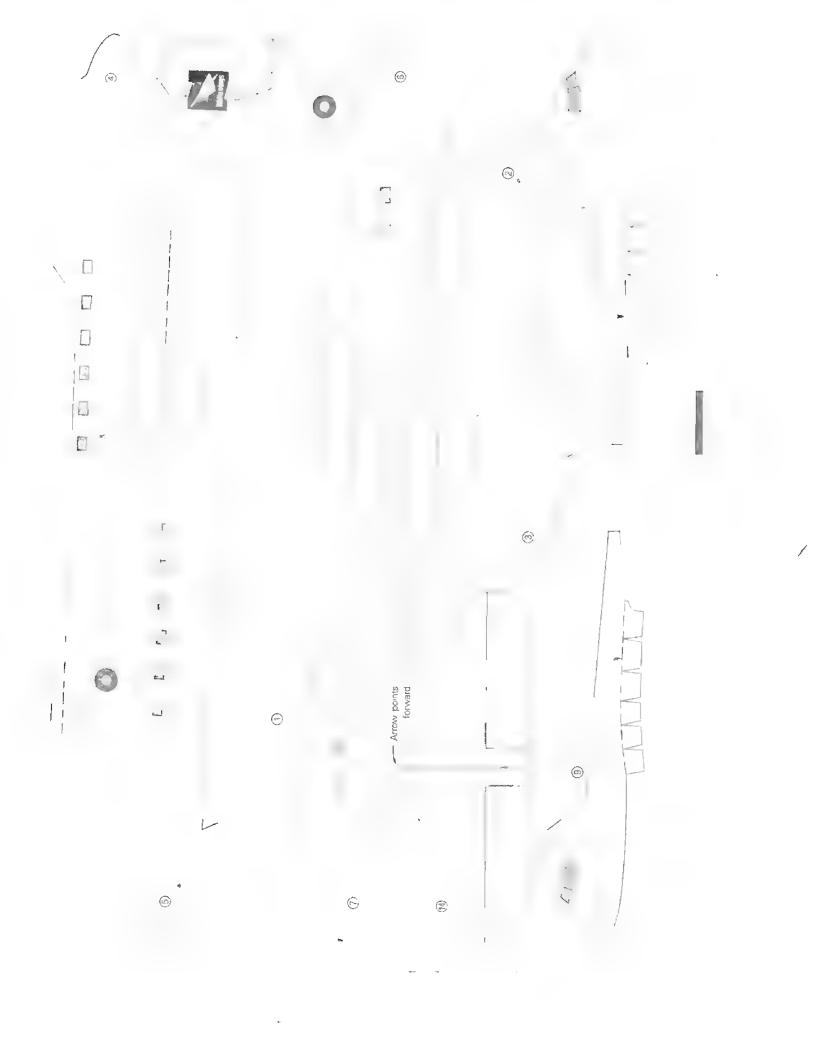
Arrow r -- forward

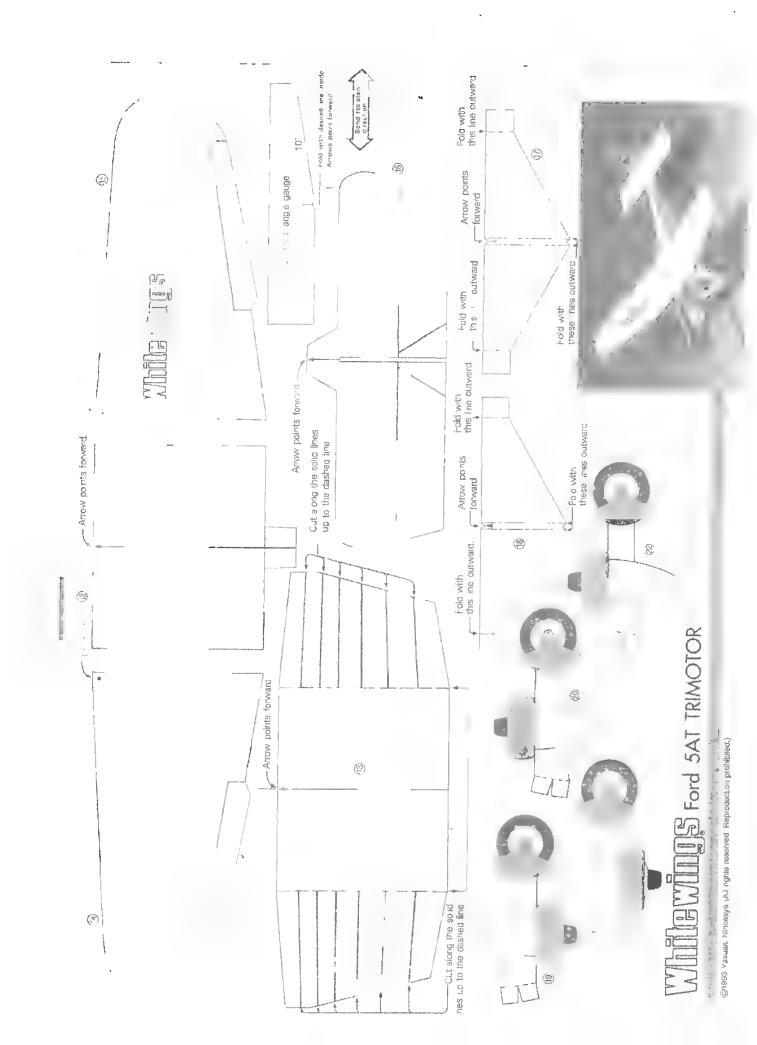
LE Aérospatiale SE 210 CARAVELLE

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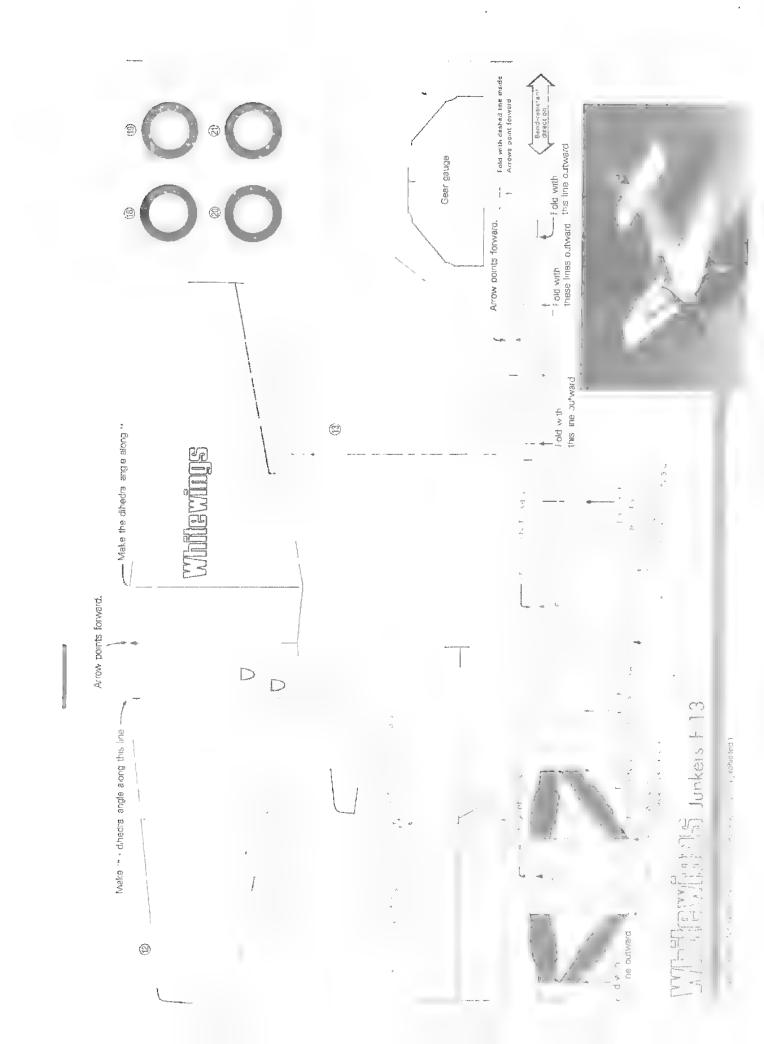


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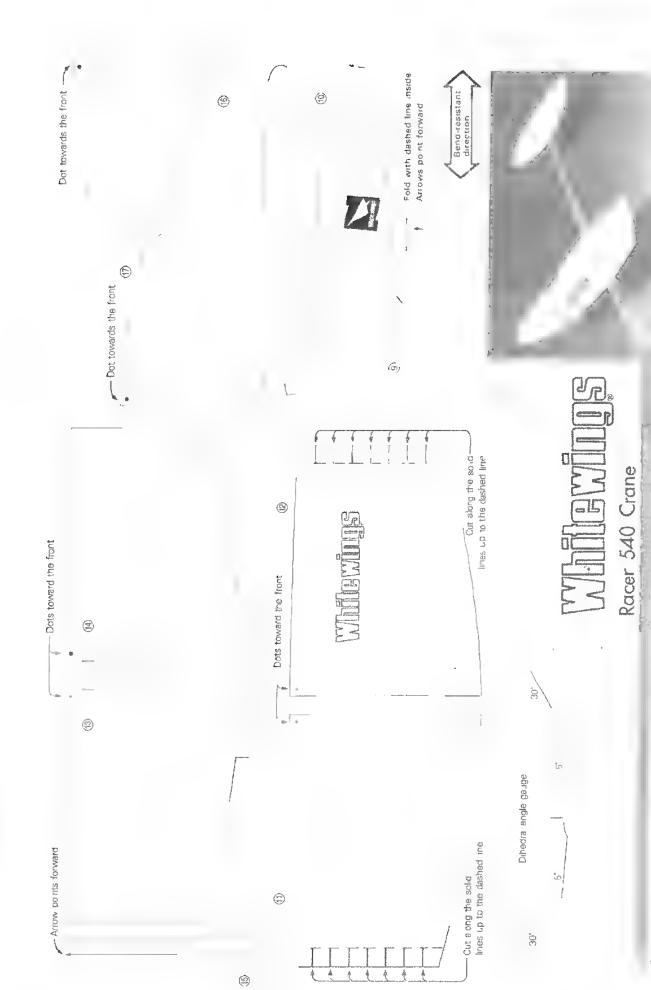






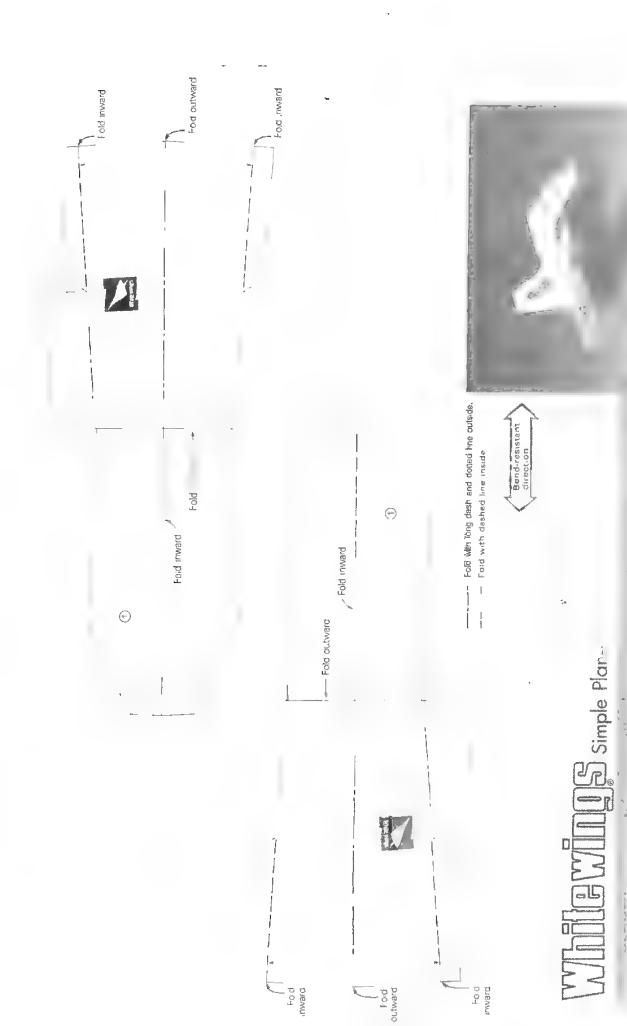
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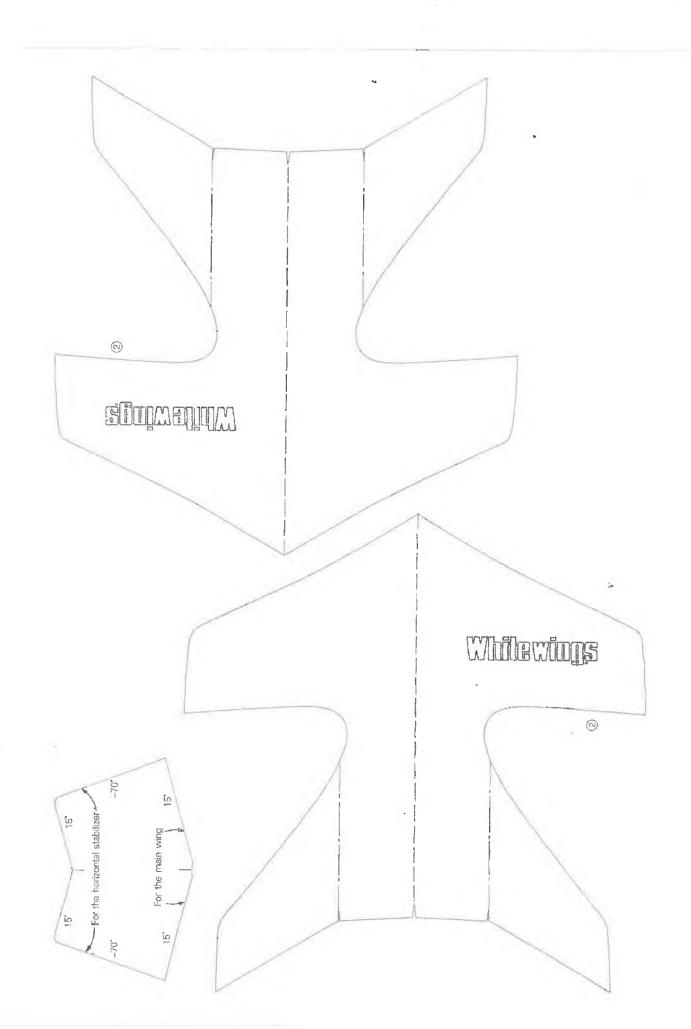


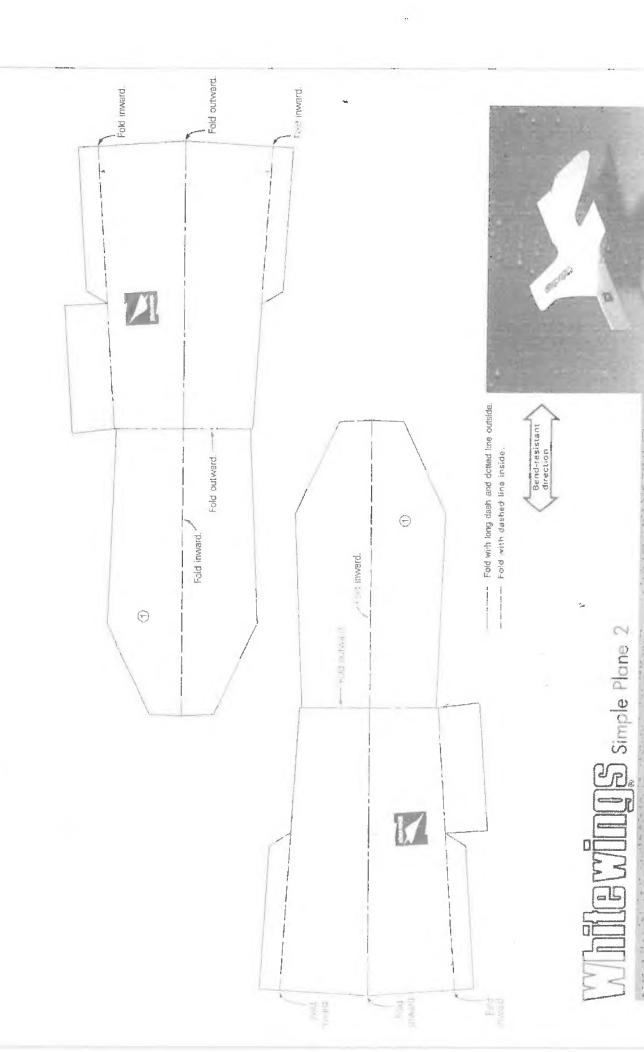
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(60) **(4)** 9 Arrow points forward 6 (6) 0 (C) **(**

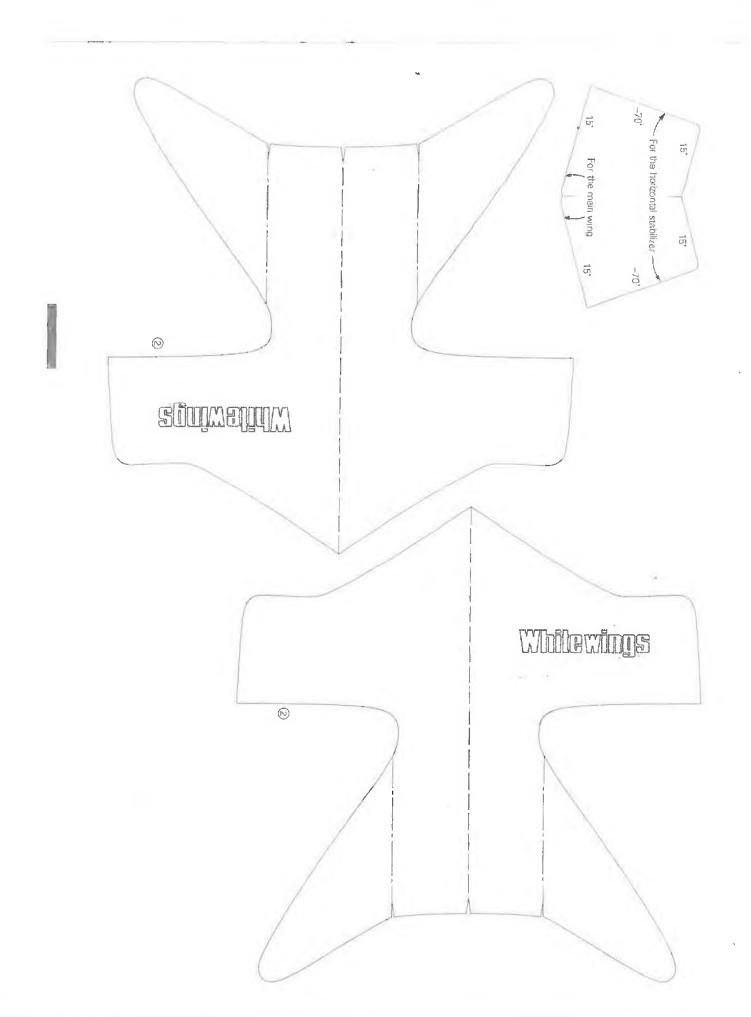


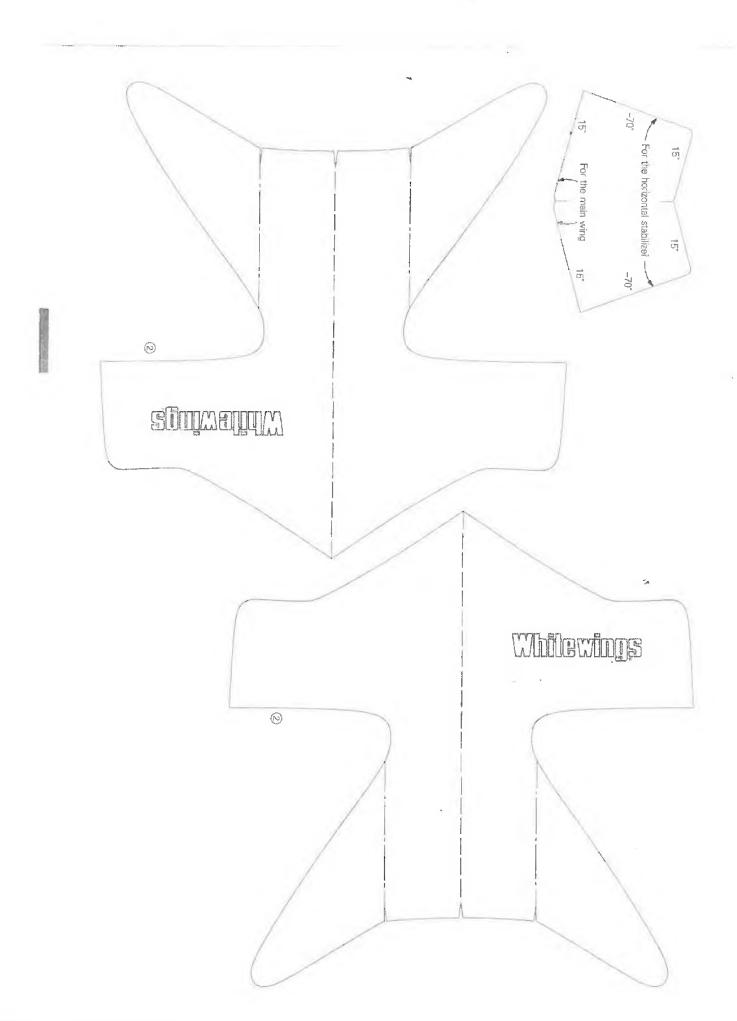
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